

IM 558 Repair and Strengthening of Reinforced Concrete Members					CIVIL ENGINEERING		
Semester	Methods of Education					Credits	
	Lecture	Recit	Lab.	Other	Total	Credit	ECTS Credit
2	42	-	-	-	42	3	7,5
Language	Turkish						
Compulsory / Elective	Optional						
Prerequisites	-						
Catalog Description	Behaviour of RC, RC load bearing systems, Earthquake effects on structures. Faults , damage types and its reasons in RC structures, Methods of repair and strengthening of RC structures,						
Course Objectives	Teaching ; repair and Strengthening of RC Structures.						
Course Outcomes	Student learns behaviour of RC, RC load bearing systems, Earthquake effects on structures ; Faults , damage types and its reasons in RC structures. Student can make design projects of repair and strengthening of RC structures,						
Textbook and /or References	<ol style="list-style-type: none"> <li>1. Ersoy, U and Tankut T."Behaviour of Repaired/Strengthened RC Columns" proceedings of 9. Europan Conference on Earth Engineering,Moskow, Sept.1990</li> <li>2. Can, H and Tankut T."Flexural Behaviour of Strengthened RC Beams" proceedings of 9. Europan Conference on Earth Engineering,Moskow, Sept.1990</li> <li>3. Marjani, F., "Behaviour of Masonary Infilled RC Frames" Ph.D. Thesis, Metu, Ankara,1997</li> <li>4. Ersoy, U., " Repair and Strengthening of RC Structures" , International Symposium on Earthquake Disaster Prevention", CENAPRED, Mexico City, 1992( Invited Paper).</li> <li>5. Ersoy, U., " Seismic Rehabilitation ",11. World Conference on Earthquake Engineering", V.2, Mexico , 1996.</li> <li>6. Altın.,S., Ersoy, U.,and Tankut, T., "Hysteretic Response of RC Infilled Frames", ASCE Struct. Journal,118,8,1992</li> </ol>						
Assessment Criteria						Quantity	Percentage
	Midterm Exams					2	60
	Quizzes					-	-
	Homeworks					-	-
	Projects					-	-
	Term Paper					-	-
	Laboratory Work					-	-
	Other					-	-
	Final Exam					1	40
Course Category by Content (%)	Mathematics and Basic Sciences					20	
	Engineering Science					30	
	Engineering Design					50	
	Social Sciences					-	
Instructors	Prof.Dr. Hüsnü CAN						